

# U. S. SURPLUS BARGAINS

IN HIGH-QUALITY OPTICAL PARTS AND EQUIPMENT



## 1/5, 12" f.l. AEROSTIGMAT BY EASTMAN KODAK

In 8½" long cone, 11¼" to 6-3/16" diam. No shutter. Iris diaphragm opens ½" to 2¼". 4-element Tessar design. Front lens clear aperture 2¾"; rear, 2-5/16". Price \$30.00

## TIME EVERYTHING—RIGHT FROM YOUR DASHBOARD

### 8-Day Elapsed-Time Surplus Aircraft Clock



Here's an accurate time-control center that'll help you win your next rally. It not only tells the date and time right to the second, it's a stopwatch that gives you elapsed time in seconds, minutes, and hours! The 24-hour clock simplifies adding and subtracting elapsed time for your navigator. Manufactured by Elgin Watch Co. to exacting military specifications, it will remain accurate in spite of road bumps and vibrations. Uses no electrical connections. Does the job of high-cost equipment. Jeweled, sweep-second hand, luminous hands and numerals, black face, plastic case. 3/8" mounting. Cost Government \$185.00.

Only \$39.95 postpaid



## AERO-EKTAR f/2.5, 12" f.l.

Completely mounted with shutter. Originally manufactured for night-photography aerial camera. Film size 9" x 9". Excellent condition. Price \$125.00



## INFRARED IMAGE CONVERTER TUBE

Image Converter Tube, Farnsworth Type IC-6-2. Combined with suitable optical systems, this 3-electrode tube permits viewing of scene with infrared radiation. Scene to be viewed is imaged by objective upon semi-transparent photocathode. Approx. diam. of tube is 1¼"; 3-5/16" long. Price \$10.00 postpaid

## K-24 AERIAL CAMERA WITH 7" f/2.5 KODAK AERO-EKTAR LENS

with red-yellow filter and spare curtains



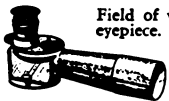
Camera weighs 26 lbs. Size 10" x 11" x 16". Removable magazine. Picture size 5" x 5". Diaphragm adjustment from f/2.5 to f/16. Film may be advanced manually or by 24-volt d.c. motor. Govt. overseas packed. Like new, ready to use. Price \$149.50



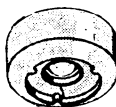
## f/2.5, 7" f.l. AERIAL CAMERA LENS

Adjustable diaphragm, f/16 to f/2.5. Original film size 5" x 5". Can be adapted for use with 35-mm. Graphic cameras as a telephoto lens. Price \$49.95

## 8-POWER WIDE-FIELD ELBOW TELESCOPE, COATED LENSES



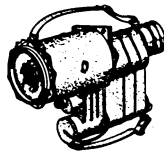
Field of view 8° 45'. Large focusing Erfle eyepiece. Eye lens diameter 2-1/16" with diopter scale +2 to -4. Four built-in filters—clear, neutral, red, amber. Length 15¾", width 6¾", height 7¾". Weight approx. 9½ lbs. Excellent unused condition. Price \$39.95



## f/6.3, 6" f.l. METROGON COATED LENS BY BAUSCH & LOMB

In lens cone with iris and shutter. Lens cone O.D. 11¾"; depth, 5¾". Price \$30.00

## NAVY INFRARED RECEIVER, TYPE C-3



Produces visible image from infrared image in complete darkness. For seeing in dark with infrared light source. Nothing to wear out. Operates on two flashlight batteries. Has high-voltage power supply and image tube (1P25) and elaborate optical system. Weighs only 6¼ pounds and is only 11" long, 8" high, 5½" wide. Manufactured by R.C.A. Objective f/0.9 Schmidt system, 2.4" focal length, 3¼" aperture. Excellent condition. Price \$50.00

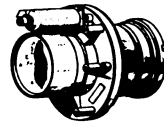
## NICKEL-CADMIUM BATTERY 1.2 VOLTS



Rechargeable thousands of times. Alkaline storage battery with sintered plates. Flat voltage curve during discharge. Will hold charge for long period of time. High discharge rate—up to 50 amperes. Spill-proof, may be used in any position. Approximately 6-ampere-hour capacity. Dimensions: 6" high, 2" wide, ½" thick; approximate weight 6 ozs. Uses potassium hydroxide (30% electrolyte). Price \$1.95 each, postpaid

Similar battery, approximately 10-ampere-hour capacity. 4½" high, 2¾" wide, ¾" thick. Approximate weight 9 ozs. Price \$2.95 each, postpaid

## BELL & HOWELL f/8 TELEPHOTO LENS



Coated lenses. Focal length 36". Completely mounted with iris and shutter. Approx. weight 25 lbs. Excellent condition. Price \$45.00

## 5" SCHMIDT ULTRAHIGH- SPEED OBJECTIVE LENS SYSTEM



Eastman Kodak infrared receiver, formerly known as U. S. Navy Metascope, Type B. 7" long with 5" Schmidt ultrahigh-speed objective lens (approx. f/0.5). Elaborate optical system, many coated lenses. Uses two penlight batteries. Cost Government approx. \$300.00. Factory-new. Shipping weight 9 lbs. Price \$19.95

Waterproof carrying case extra. 3 lbs. Price \$3.00

Infrared Filters. 5¾" diam. x ½" thick. Price \$2.95 each



## AERO-EKTAR f/2.5, 12" f.l.

Coated Aero-Ektar f/2.5 lens mounted in barrel. Has two metal-mounted elements. Originally manufactured for night aerial photography. Excellent condition. Price \$95.00

## WIDE-ANGLE ERFLE EYEPIECE (68° Field)

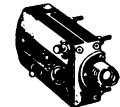


Coated optics. 3 achromatic lenses. 1¼" focal length, 1-13/16" aperture. Price \$13.50



## POLARIZING (Newton) RING SIGHT

When sight is held up to the eye, a series of rainbow-colored concentric rings is seen. Rings appear to rest on the object sighted, whether it is a yard or a mile away. May be used in front of a binocular eyepiece or as a telescope reticle. Also makes an excellent sight for a camera. Approx. outside diam. 1-7/16". Complete with mounting bracket. Price \$3.50 postpaid



## 16-mm. AERIAL GUN CAMERA, MODEL AN-N6

Takes standard 16-mm. magazine load (50). Takes 16, 32, or 64 frames per second. Wollensak Type V lens, 35-mm., f/3.5. Excellent condition. 24-volt d.c. Price \$19.95

Send full amount with order. All prices, except as noted, net f.o.b. Pasadena, Calif. No C.O.D.'s please.

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## LETTERS

# To the Editor

## Animal Living Quarters

Sir:

Your article "Stanford Beasts to Live Well" (SN: 8/19) gives the impression that luxurious quarters are being built at great expense for already comfortably housed animals. It is unfortunate that reports of this kind frequently reveal more about the attitudes of their authors than about conditions for experimental animals. Anyone interested in the latter would want to know how much cage space was available for each type of animal used, and what provision for exercise.

The article reports that "65,000 animals" will be housed in "14,000 square feet of space with an additional 4,000 square feet of outdoor pens, kennels and exercise areas." If the space were evenly divided, each animal would have 6 by 7 inches. If there were 3 tiers of cages, each would have 10 by 12 inches. Obviously, it is important to know whether the animals are dogs or mice.

The report implies that good housing for experimental animals is typical and that the "filthy quarters pictured by animal lovers" do not exist. The fact is that conditions are sufficiently bad so that there is a great deal of complaining about coming up to even the very modest standards set by recent legislation.

Not even good housing, let alone simply expensive housing, means that "humane societies can rest assured that" the animals "will live well." Concern for their welfare is a necessary ingredient of insurance that they will live just reasonably decently.

Marjorie Anchel  
Senior Research Associate  
New York Botanical Garden

## Agricola Again

Sir:

In your issue (SN: 6/24) you published a letter by Rev. Anselm M. Keefe, indicating that Agricola lived from 37-93.

The Roman Agricola did not write on mining problems. George Agricola did. He lived 1494-1555.

A bit of a difference, I would say.

Dr. A. Lenard  
S. Catarina, Brazil

## Readership Multiplies

Sir:

My son receives the magazine, but I find the issues invaluable. I am a  
(See p. 294)